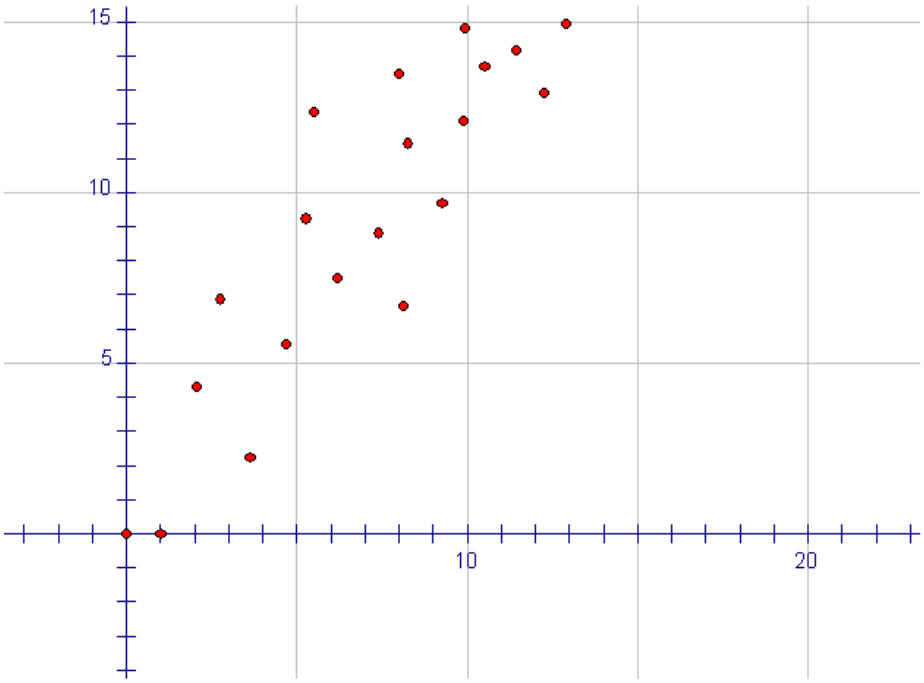
2-5 Modeling Real World Data

Scatter plot--set of data graphed as ordered pairs

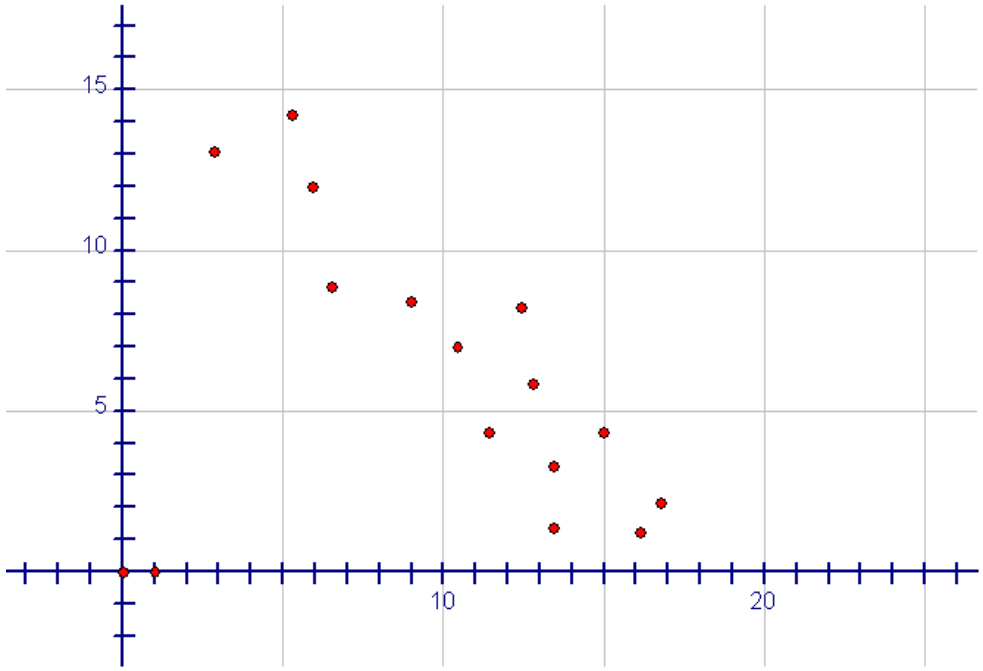
Oct 4-11:30 AM

Positive Correlation



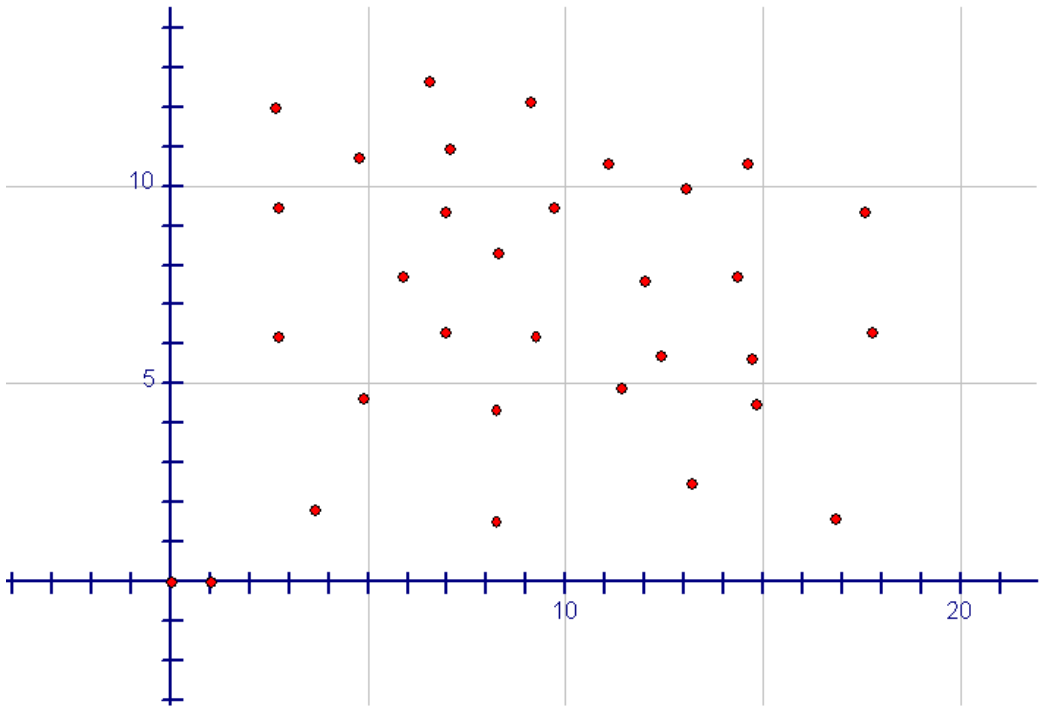
Oct 4-11:32 AM

Negative Correlation



Oct 4-11:32 AM

No Correlation



Oct 4-11:32 AM

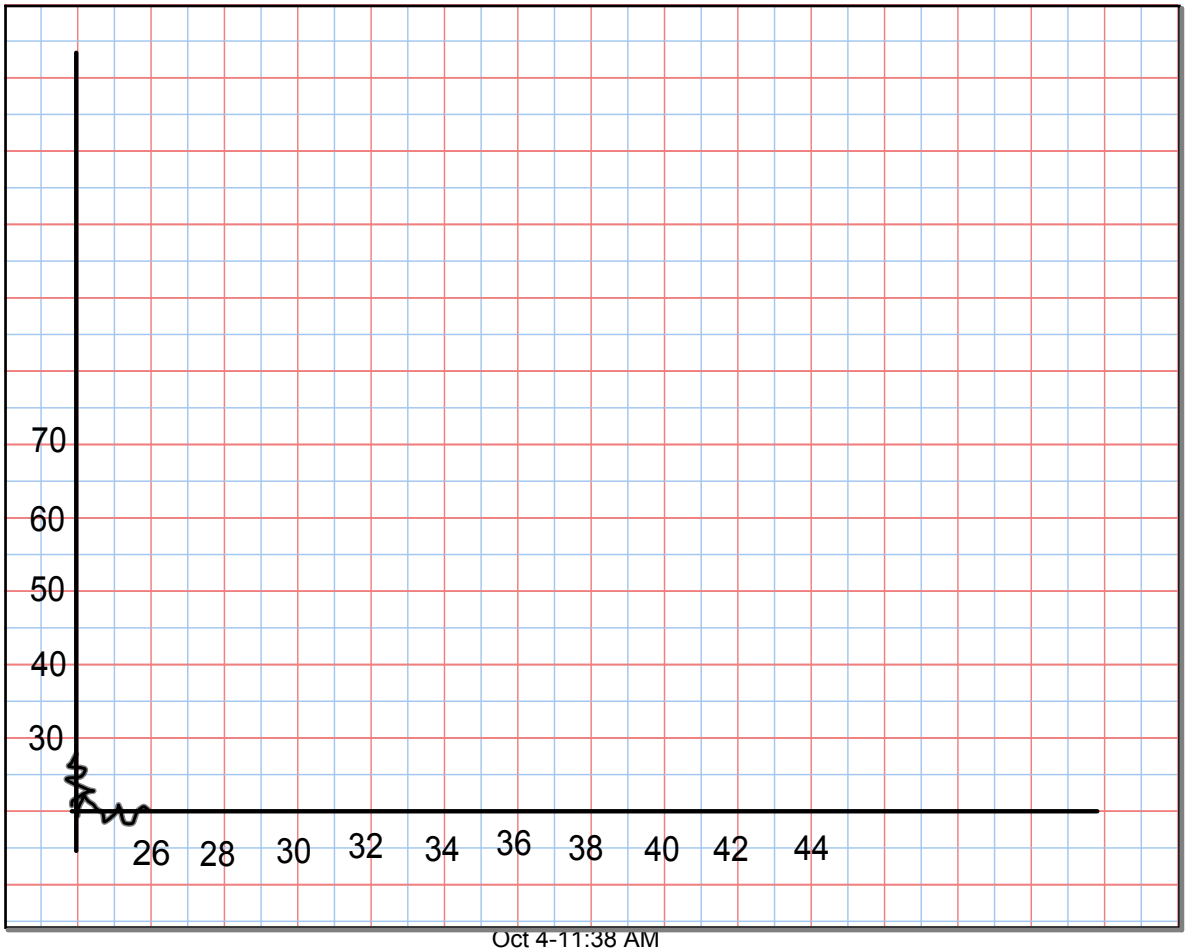
Line of Best Fit--line that closely approximates the data

- an equation that allows you to make a prediction

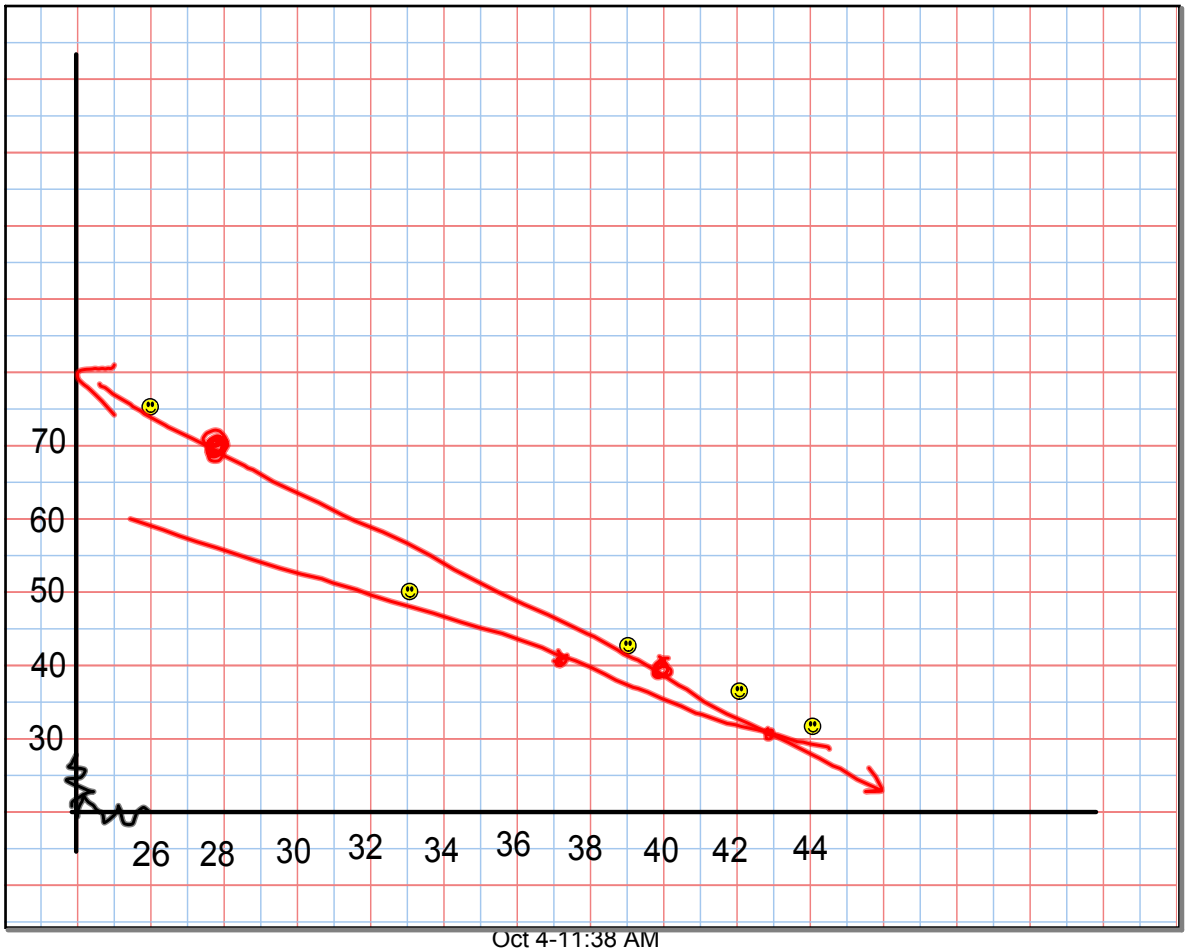
Oct 4-11:34 AM

City	North Latitude	Maximum Normal Temp. For January (in °F)
Miami, Fl	26°	75
Charleston, SC	33°	50
Washington, D.C.	39°	43
Boston, MA	42°	36
Portland, ME	44°	31

Oct 4-11:35 AM



Oct 4-11:38 AM



Oct 4-11:38 AM

2 pts from line

(28, 70)
(40, 40)

$m = \frac{70-40}{28-40} = \frac{30}{-12} = -2.5$

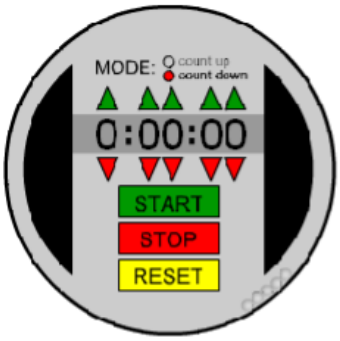
$y = mx + b$

$40 = (-2.5)40 + b$

$140 = b$

$y = -2.5x + 140$

Oct 6-12:58 PM

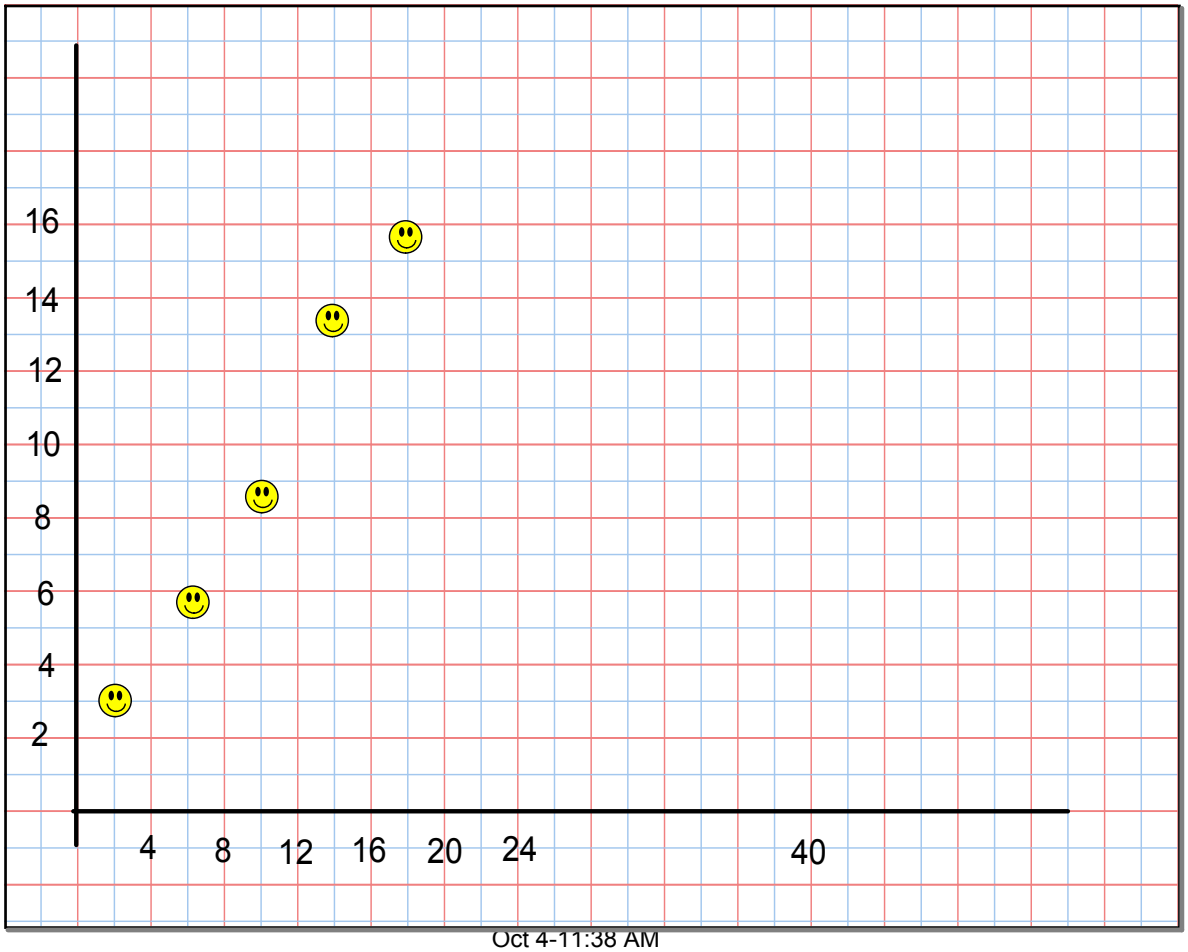


Pass the Book

~~The Wave~~

# of Students	Duration
3	2.37
6	5.37
10	8.73
14	13.69
18	15.57

Oct 4-11:39 AM



Oct 4-11:38 AM

$y = \frac{2}{3}x + 2$

$y = \frac{2}{3}(60) + 2$

42 seconds

$120 = \frac{2}{3}x + 2$

$118 = \frac{2}{3}x$

177

Oct 6-1:19 PM

HW

p83-85 #s 1, 4-6, 8

Oct 4-11:43 AM